From: Cathy Marcinkevage - NOAA Federal <cathy.marcinkevage@noaa.gov>

**Sent:** Friday, April 12, 2019 12:01 PM **To:** Evan Sawyer - NOAA Federal

Cc: Hilts, Derek; Cathy Marcinkevage - NOAA Federal; Garwin Yip - NOAA Federal; Howard

Brown - NOAA Federal

**Subject:** Re: [EXTERNAL] Re: ROC on LTO simulation of Keswick Jun, Jul, Aug releases

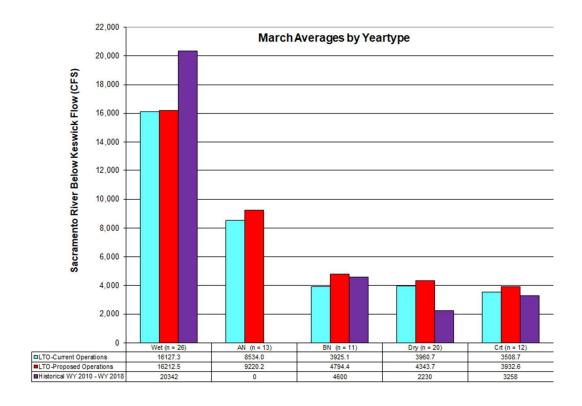


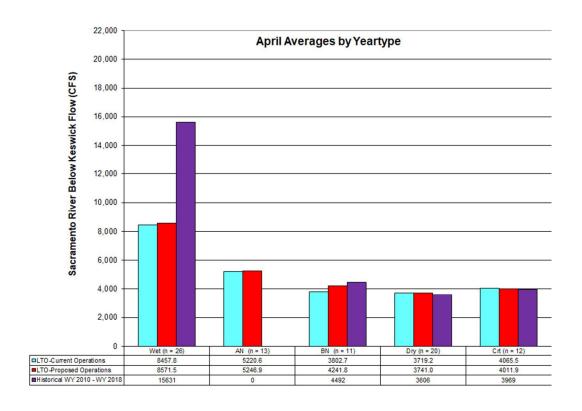
On Fri, Apr 12, 2019 at 11:44 AM Evan Sawyer - NOAA Federal <<u>evan.sawyer@noaa.gov</u>> wrote: Thank you Derek,

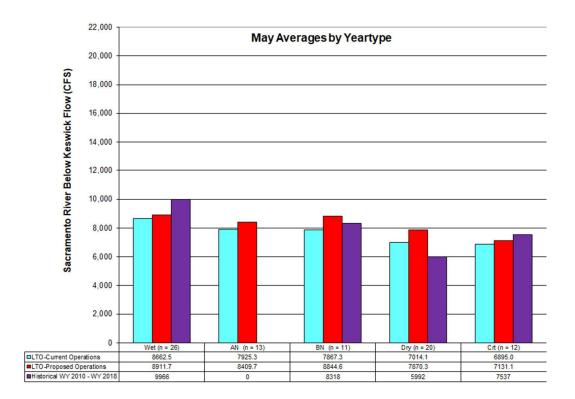
Either these figures are very easy to generate or you're just that fast! Maybe both? I'll save my (cautious) interpretation for off-line discussion.

Evan

On Fri, Apr 12, 2019 at 11:19 AM Hilts, Derek < derek hilts@fws.gov > wrote:







Derek Hilts M.S., P.E. US Fish and Wildlife Service 650 Capitol Mall Room 8-300 Sacramento, California 95814 Work desk phone 916.930.5633

On Fri, Apr 12, 2019 at 11:12 AM Hilts, Derek < derek hilts@fws.gov wrote: Hi Evan,

Yes, 2013 is the only Dry water year in the 2010-2019 period. The SOD ag service allocation was announced to be 20% on March 22 and stayed that way the rest of the water year. Without looking at CVP San Luis storage conditions, NDOI requirements, maintenance records, etc I'm not sure why they were that low.

I will generate similar bar charts for Mar-May and send them to you shortly. Derek

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On Fri, Apr 12, 2019 at 11:03 AM Evan Sawyer - NOAA Federal <<u>evan.sawyer@noaa.gov</u>> wrote: Hi Derek,

This is interesting. I'm wondering what happened in that one Dry year? Looks like it was 2013 which we mark as the start of the drought, so maybe Reclamation really clamped down?

So I think Maria was talking about the restrictions on Keswick releases that occur March - May(RPA I.2.3.B). Are the figures you've provided easy to generate? Could the be done for the months of March - May? I'm curious if the COS was modeled to accordingly. If this request needs to come from higher up, Cathy, Garwin or Howard please chime in.

Thanks, Evan

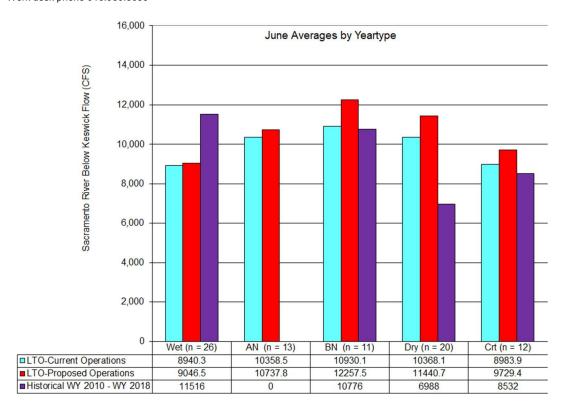
On Fri, Apr 12, 2019 at 10:23 AM Hilts, Derek < derek hilts@fws.gov> wrote:

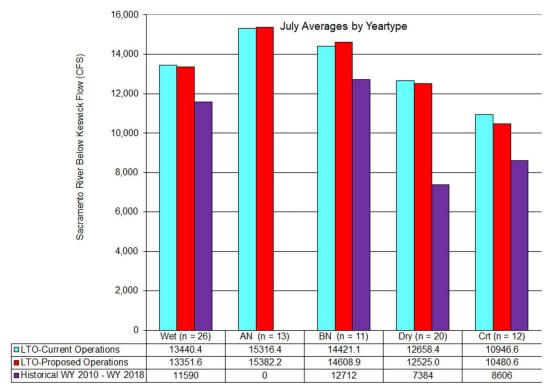
You've probably already looked at this. I looked at it with an eye towards Maria's question of does the COS mimic actual actions (lower Keswick releases) since the 2009 BiOp was promulgated?

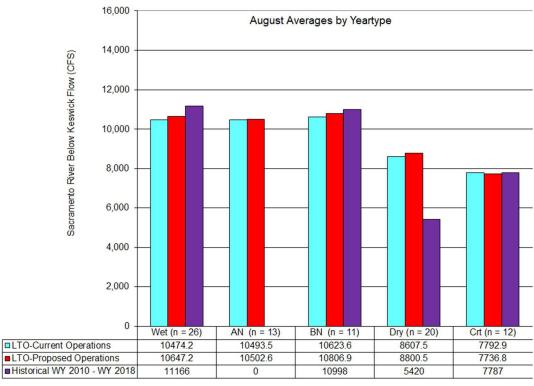
Please use caution interpreting the results as the historical bars have very few years supporting them (zero years in the case of Above Normal).

Derek

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